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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/021,285

12/19/2001

Donald H. Willis

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EXAMINER

NGUYEN, HUY THANH

ART UNIT	PAPER NUMBER
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2621

MAIL DATE	DELIVERY MODE
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05/17/2007

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/021,285	Applicant(s) WILLIS, DONALD H.	
	Examiner HUY T. NGUYEN	Art Unit 2621	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 20 February 2007.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-22 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1, 5-11 and 16-22 is/are rejected.
- 7) ☒ Claim(s) 2-4 and 13-15 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 20 February 2007 has been entered.

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to

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consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

3. Claims rejected under 35 U.S.C. 103(a) as being unpatentable over Katayama (6,898,246) in view of Yagasaki et al (5,786,858).

Regarding claims 1,12 and 16, Katayama discloses a system (Fig. 1) and a method for producing a segment of video containing a plurality of predictively encoded pictures (column 7, and column 8, lines 1-27) comprises:

a memory for storing information and a video processor ;

decoding a portion of a predictive picture from the plurality of predictive pictures without decoding entirety the predictive picture ; and,

updating a portion of information stored in a memory with the portion of the predictive picture (Fig. 3).

Katayama fails to teach a trick mode playback for the video segment .

Yagasaki teaches a system having means for enabling a trick play mode for a video segment containing a portion of predictive picture (column 17, lines 25-55, Fig. 23). It would have been obvious to one of ordinary skill in the art to modify Katayama with Yagasaki by providing the apparatus of Katayama with an enabling means as taught by Yagasaki thereby enhancing capability of the apparatus of Yagasaki .

Regarding claims 2 and 13, Katayama as modified with Yagasaki further teaches the step of repeating steps (a) and (b) during the trick mode playback such that a portion of each of a predetermined number of subsequent predictive pictures are decoded and

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used to update a subsequent portion of the information stored in the memory (column 9, lines 25 to column 10, line 55) .

Regarding claims 5 ,6 and 17, Katayama as modified with Yagasaki further teaches updating a portion of the information stored in the memory exclusively with the portion of the predictive picture and the portion of the predictive picture that is decoded has a substantially direct correspondence to the portion of the information in the memory that is being updated (See Katayama column 7, and column 8,lines 1-27, Fig. 3).

Regarding claims 7 and 18, Katayama further teaches the segment of video is an MPEG video segment that does not contain any intra pictures and each of the plurality of predictive pictures contains intra macroblocks (Fig. 4).

Regarding claims 8 and 19, Katayama further teaches that the portion of the predictive picture is comprised of intra macroblobs (Fig. 4).

Regarding claims 10,11 and 21-22 , Katayama further teaches that the information stored in the memory (116) is a picture and that the picture stored in the memory is initially a properly decoded picture (column 7, and column 8,lines 1-27,(Fig. 3).

4. Claims 9 and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Katayama (6,898,246) in view of Yagasaki et al (5,786,858) as applied to claims 1 and 12 above , further in view of Tanabe (6876812) .

Regarding claims 9 and 20, Katayama as modified with Yagasaki further teaches that a playback speed of the fast motion trick mode in a forward direction (high speed) (See Yagasaki column 17, lines 45-55) but fails to specifically teach that the playback speed is greater than 3X.

Tanabe teaches a method for playing the encoded video signal at a speed that is greater than 3X (column 5, lines 1-30).

It would have been obvious to one of ordinary skill in the art to modify Katayama as modified with Yagasaki with Tanabe providing the method of Katayama with a step for playing the encoded video data with a speed greater than 3X thereby reducing the time for searching a desired portion of the video data for viewing.

Allowable Subject Matter

1. Claims 2-4 and 13-15 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.


2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to HUY T. NGUYEN whose telephone number is (571) 272-7378. The examiner can normally be reached on 8:30AM -6:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John W. Miller can be reached on (571) 272-7353. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

H.N


HUY NGUYEN
PATENT EXAMINER